

REMARKS

Favorable reconsideration of this application in view of the above amendments and following remarks is respectfully requested.

By this amendment, Claims 1 and 10 are amended; and no claims are added or canceled herewith. It is respectfully submitted that no new matter is added by this amendment.

In the outstanding Office Action, Claims 1-3 and 10 were rejected under 35 U.S.C. § 103(a) as unpatentable over U.S. Patent No. 5,949,377 to Matsumoto in view of U.S. Patent No. 6,492,252 to Hu; Claims 4-6, 9 and 11 were rejected under 35 U.S.C. § 103(a) as unpatentable over Matsumoto and Hu and further in view of U.S. Patent No. 6,223,023 to Kikuchi; and Claims 7 and 8 were indicated as including allowable subject matter.

With respect to the rejection of the claims under 35 U.S.C. § 103(a), the applied art does not teach or suggest a conductive bent-back portion formed on one end side of a circuit substrate and configured to be connected with a ground portion and to extend the notch portion, as claimed in Claim 1 and similarly claimed in Claim 10.

Instead, Matsumoto discloses, as best shown in Figure 44, a whip antenna 80 formed as the first antenna and a notch antenna 90 formed as the second antenna. The notch antenna 90 includes an opening 92 at a width h opposed to the whip antenna 80. The opening 92 is positioned offset from a metallic member such as a shield metallic box 93 for containing an inner circuit substrate.

Hu merely discloses as shown in Figures 1 and 2, an antenna device 1 including a member 10 for supporting radiating elements. The member 10 is generally a flat dielectric support and is provided with a fold giving it a shape resembling an L when viewed from the side. The member 10 is attached to a generally planar PCB 20 of a portable communication device, such as a phone. The PCB 20 is provided with relatively large conducting portions 22

functioning as a ground plane or ground conductor of the antenna device. As such, it is the dielectric support member 10 that is bent into the L-shaped as shown in Figure 2.

Kikuchi discloses, as best shown in Figure 4 that a frame 7 is formed in a generally boxed shape by cutting and bending a metallic flat plate and it comprises sidewalls 7a as surrounding walls, a bottom wall 7b which closes the lower side and receptacle portion 7c whose upper side is open with a suitable means, the printed wiring board 6 is mounted and held in the receptacle portion 7c of the frame 7.

Accordingly, none of the applied art teaches or suggests a notched antenna including a circuit substrate comprising a ground portion and a notch portion opened at one end thereof with a conductive bent-back portion formed on the end side of the circuit substrate and configured to be connected with the ground portion and to extend the notch portion. Again, Hu merely discloses a dielectric support member 10 that is bent into the L-shaped as shown in Figure 2. Kikuchi discloses a boxed shaped frame 7 that has bent wall portions.

The claimed features discussed above provide at least the advantages of having a radio device with which it is possible to achieve a reduction in size and enhancement of antenna efficiency and gain. The applied art does not disclose the features of the claimed invention discussed above and therefore, cannot provide at least the advantages discussed above. Accordingly, withdrawal of the rejection of the claims under 35 U.S.C. § 103(a) is respectfully requested.

Consequently, for the reasons discussed in detail above, the further issues are believed to be outstanding in the present application, and the present application is believed to be in condition for formal allowance. Therefore, a Notice of Allowance is earnestly solicited.

Should the Examiner deem that any further action is necessary to place this application in even better form for allowance, the Examiner is encouraged to contact the undersigned representative at the below listed telephone number.

Respectfully submitted,

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